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Class 717 DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND MANAGEMENT

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<u>100</u>	SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G., INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
<u>101</u>	. Software project management
<u>102</u>	.. Enterprise based
<u>103</u>	... Distributed
<u>104</u>	. Modeling
<u>105</u>	.. Visual
<u>106</u>	. Code generation
<u>107</u>	.. Component based
<u>108</u>	.. Object oriented
<u>109</u>	.. Visual
<u>110</u>	. Editing
<u>111</u>	.. Dynamic
<u>112</u>	... Syntax based
<u>113</u>	.. Visual
<u>114</u>	. Programming language
<u>115</u>	.. Script
<u>116</u>	.. Object oriented
<u>117</u>	.. Declarative (e.g., rule based)
<u>118</u>	.. Bytecode (e.g., Java)
<u>119</u>	.. Parallel
<u>120</u>	. Managing software components
<u>121</u>	.. Software configuration
<u>122</u>	.. Source code version
<u>123</u>	.. Design documentation
<u>124</u>	. Testing or debugging
<u>125</u>	.. Having interactive or visual
<u>126</u>	.. Program verification
<u>127</u>	.. Monitoring program execution
<u>128</u>	... Tracing
<u>129</u>	... Using breakpoint
<u>130</u>	.. Including instrumentation and profiling
<u>131</u>	.. Including analysis of program execution
<u>132</u>	... Using program flow graph
<u>133</u>	.... Using procedure or function call graph
<u>134</u>	.. Including emulation
<u>135</u>	.. Including simulation
<u>136</u>	. Translation of code
<u>137</u>	.. Source-to-source programming language translation
<u>138</u>	.. Emulation
<u>139</u>	.. Interpreter
<u>140</u>	.. Compiling code
<u>141</u>	... Analysis of code form
<u>142</u> Scanning and lexical analysis
<u>143</u> Parsing, syntax analysis, and semantic analysis

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<u>144</u> Including graph or tree representation (e.g., abstract syntax tree or AST)
<u>145</u>	... Including recompilation
<u>146</u>	... Including intermediate code
<u>147</u>	.... Platform-independent form (e.g., abstract code)
<u>148</u>	.... Just-in-time compiling or dynamic compiling (e.g., compiling Java bytecode on a virtual machine)
<u>149</u>	... For a parallel or multiprocessor system
<u>150</u>	.... Loop compiling
<u>151</u>	... Optimization
<u>152</u>	.... Static (source or intermediate level)
<u>153</u>	.... Dynamic (i.e., machine or object level)
<u>154</u>	.... Including analysis of program
<u>155</u>	..... Data flow analysis
<u>156</u>	..... Using flow graph
<u>157</u>	..... Using procedure or function call graph
<u>158</u>	..... Including instrumentation and profiling
<u>159</u>	.... Code restructuring
<u>160</u>	..... Including loop
<u>161</u>	..... Including scheduling instructions
<u>162</u>	. Linking
<u>163</u>	.. Including library
<u>164</u>	... Shared
<u>165</u>	.. Object oriented
<u>166</u>	... Using class loader
<u>167</u>	.. Remote
<u>168</u>	SOFTWARE UPGRADING OR UPDATING
<u>169</u>	. Including multiple files
<u>170</u>	. Plural version management
<u>171</u>	. Network
<u>172</u>	.. Including distribution of software (e.g., push-down, pull-down)
<u>173</u>	... Including downloading
<u>174</u>	SOFTWARE INSTALLATION
<u>175</u>	. Including multiple files
<u>176</u>	. Network
<u>177</u>	.. Including distribution of software
<u>178</u>	... Including downloading

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